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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/073,855 02/14/2002		John J. O'Mahony	3659-40	6324	
23117	7590 02/11/2004	EXAMINER			
NIXON & Y	VANDERHYE, PC	DEAK, LE	DEAK, LESLIE R		
8TH FLOOR		ART UNIT	PAPER NUMBER		
ARLINGTO	N, VA 22201-4714	3762	. 7		
			DATE MAILED: 02/11/2004	, 13	

Please find below and/or attached an Office communication concerning this application or proceeding.

•			Α	pplication	No.	Applicant(s)		
000 4 4		Action Summan	1	10/073,855			O'MAHONY ET AL.	
	Οπις	Action Summary	E	xaminer		Art Unit	OH	
			,	eslie R. Dea		3762		
Period fo		ING DATE of this commu	ınication appear	rs on the co	over she t with the	correspondence add	iress -	
THE N - Exter after - If the - If NO - Failur - Any re	MAILING E asions of time r SIX (6) MONT period for repli period for repli re to reply with eply received b	O STATUTORY PERIOD DATE OF THIS COMMUI may be available under the provision HS from the mailing date of this corry specified above is less than thirty y is specified above, the maximum in the set or extended period for report the Office later than three months adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a) mmunication. (30) days, a reply with statutory period will ap oly will, by statute, cau s after the mailing date). In no event, hin the statutor, pply and will ex use the applicat	however, may a reply be ti	mely filed ys will be considered timely in the mailing date of this co ED (35 U.S.C. § 133).	mmunication.	
1)⊠	Responsi	ve to communication(s) f	iled on <u>20 Nove</u>	ember 2003	<u>3</u> .			
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Clai	ms						
4)🖂	Claim(s)	1-38 is/are pending in the	application.					
	4a) Of the above claim(s) 1-25 and 31-38 is/are withdrawn from consideration.							
5)								
6)⊠	Claim(s) <u>26-30</u> is/are rejected.							
•	Claim(s) is/are objected to.							
8) 🗌	Claim(s) _	are subject to rest	riction and/or el	lection requ	uirement.			
Applicati	on Paper	S						
	☐ The specification is objected to by the Examiner.							
10)⊠	oxtimes The drawing(s) filed on <u>14 February 2002</u> is/are: a) $oxtimes$ accepted or b) $oxtimes$ objected to by the Examiner.							
		may not request that any ob					-D 4 4044 IV	
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•			i to by the Exam	niner. Note	the attached Offic	e Action of form P1	O-152.	
•		J.S.C. §§ 119 and 120						
* S 13)	All b)[1. Ce 2. Ce 3. Co app See the att Acknowled ince a spe 7 CFR 1.7) The t	dgment is made of a claid Some * c) None of tified copies of the prioritified copies of the prioritified copies of the certified copies of the certified copies of the certified copies of the certified copies of the detailed Office accepted detailed Office accepted is made of a claim cific reference was included. 8. ranslation of the foreign genent is made of a claim was included in the first second	f: ty documents h ty documents h es of the priority tional Bureau (F tion for a list of n for domestic p ded in the first s language provis n for domestic p	nave been in ave been in ave been in ave been in average of the certified oriente of the certified oriente of the certified oriente of the certified oriente or the certified oriente	received. received in Applica s have been received. 17.2(a)). d copies not receiver 35 U.S.C. § 119 f the specification of cation has been re er 35 U.S.C. §§ 12	ved in this National ved. (e) (to a provisional or in an Application eceived.	l application) Data Sheet. a specific	
Attachmen								
2) Notice	e of Draftspe	ces Cited (PTO-892) erson's Patent Drawing Review osure Statement(s) (PTO-1449		5		ry (PTO-413) Paper No(Patent Application (PTC		

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 16-30 in Paper No. 10 is acknowledged. However, examiner indicated that claims 1-21, 22-25, 26-30, and 31-38 were grouped together. Accordingly, examiner has examined claims 26-30 in the present action.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 26, 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,178,603 to Prince in view of US 5,211,849 to Kitaevich et al. Prince discloses a system and method for monitoring an extracorporeal blood loop, including flowing blood from a patient, through the loop, and back to the patient. A controller monitors the pressure in the extracorporeal loop, detects occlusions, and adjusts the pumping speed until the occlusion condition has been rectified, then bringing the pumping speed back up to normal (see columns 3-4). Prince fails to disclose a filtration apparatus, but does disclose that his system and method may be used for various extracorporeal circulation setups. Kitaevich discloses a hemofiltration system and method that remove blood from a patient filter it, and return it to the patient. Kitaevich discloses that various pressure

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transducers in the system, including one between the filtrate pump and the filter, relay pressure signals (that may indicate occlusion) to the controller, which adjusts the rate of blood flow and filtrate flow accordingly. Therefore, it would have been obvious to one of ordrinary skill in the art at the time of invention was made to add the filtration system disclosed by Kitaevich to the occlusion monitoring system disclosed by Prince in order

to protect the patient from dangerous extracorporeal circulation conditions.

4. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over US

5,178,603 to Prince in view of US 5,211,849 to Kitaevich et al, further in view of US

5,464,392 to Epstein et al. Prince and Kitaevich disclose the method as claimed except

for inducing patient movement to alleviate the occlusion. Epstein discloses that patient

movement may cause occlusion of extracorporeal tubing, indicating that further

movement would alleviate the occlusion. Therefore, it would have been obvious to one

of ordinary skill in the art at the time of invention to induce patient movement to alleviate

a patient-relievable the occlusive condition in order to continue the extracorporeal

therapy.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a. US 4,828,543

Weiss et al

i. Extracorporeal circulation apparatus with pump speed controllers

b. US 6,585,675

O'Mahony et al

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ii. Method for controlling extracorporeal circulation

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie R. Deak whose telephone number is 703-305-0200. The examiner can normally be reached on M-F 7:30-5:00, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on 703-308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3590.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0873.

Lrd V

ANGELA D. SYKES SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

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